SEIT III	
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## S.E. (Computer Engineering) PRINCIPLES OF PROGRAMMING LANGUAGES (2019 Pattern) (Semester - IV) (210255)

Time	: 2	<sup>1</sup> / <sub>2</sub> Hours] [Max. Mo	arks : 70
Instr	ucti	ions to the candidates:	
	<i>1</i> )	Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.	
	<i>2</i> )	Neat diograms must be drawn wherever necessary.	
	<i>3</i> )	Assume suitable data if necessary.	
01)	a)	Describe primitive data types. List the primitive data types in Ja	wa and
<i>Q1</i> )	a)	their respective storage capacity.	194 and [6]
	b)		[6]
	c)		[6]
	C)	OR	լսյ
Q2)	a)		ings in
<i>Q2)</i>	α)	Java with example.	111gs 111 [6]
		i) To find length of the string	[o]
		ii) To compare two strings	
		iii) To extract a character from a string	_
		iv) To concatenate two strings	
	b)	6.	ava <b>(61</b>
	0)	i) Secure	50.01
		ii) Architectural Neutral	<b>×</b>
		iii) Distributed	
	c)		n if vou
	• ,	remove static modifier from the main method.	[6]
Q3)	a)	State the difference between character and byte stream in Java. G	ive anv
<b>~</b>		two input and any two output classes for character streams.	[6]
	b)	Describe Exception. Explain keywords try, catch, throw, throw	ws and
	ĺ	finally related to exception handling.	[6]
	c)		
	•	OR OR	

<b>Q</b> 4)	a)	Define is inheritance. List the advantages of Inheritance. Explain Simple inheritance in iova with example	
	b)		<b>5</b> ]
	U)		6]
	c)		_
	• ,		5]
			_
<b>Q</b> 5)	a)	Interpret the terms multitasking and multiprocessing and multithreading	ıg
~ /			<u>5]</u>
	b)	List the Features, advantages and limitations of Angular JS. [6]	<b>6</b> ]
	c)		<b>6</b> ]
		OR	
<b>Q6</b> )	a)	Compare React JS and Angular JS and Vue JS. [6	<b>6</b> ]
	b)	Elaborate the terms getPriority() and setPriority() methods with example	e.
			<b>6</b> ]
	c)	Explain the uses of isAlive() and Join() methods in Java thread with	
		example.	<b>6</b> ]
~ <b>-</b> \			
<b>Q</b> 7)	a)	Describe Functional Programming Enlist its features. Also list the	
	1 \		<b>6</b> ]
	b)		
			<b>6</b> ]
		i) (apple orange pear grapes)	
		ii) ((apple orange) (pear grapes))	
	c)	iii) (((apple)(orange) (pear) (grapes))) Explain the concept of "Structures" in Prolog with example.	-C
	c)	OR	۷ړې د
<b>Q</b> 8)	a)	Describe Logical Programming. Enlist its features. Also list the common	v
Qu)	u)		5]
	b)		
	-,		<b>6</b> ]
	c)	Explain the following number predicates using suitable example.	5]
		i) NUMBERP	-
		ii) ZEROP	
		iii) PLUSP	
		iv) EVENP	
		v) ODDP	
		Explain the following number predicates using suitable example.  i) NUMBERP  ii) ZEROP  iii) PLUSP  iv) EVENP  v) ODDP	